Gulf Region Division

U.S. Army Corps of Engineers

Delivering on Progress

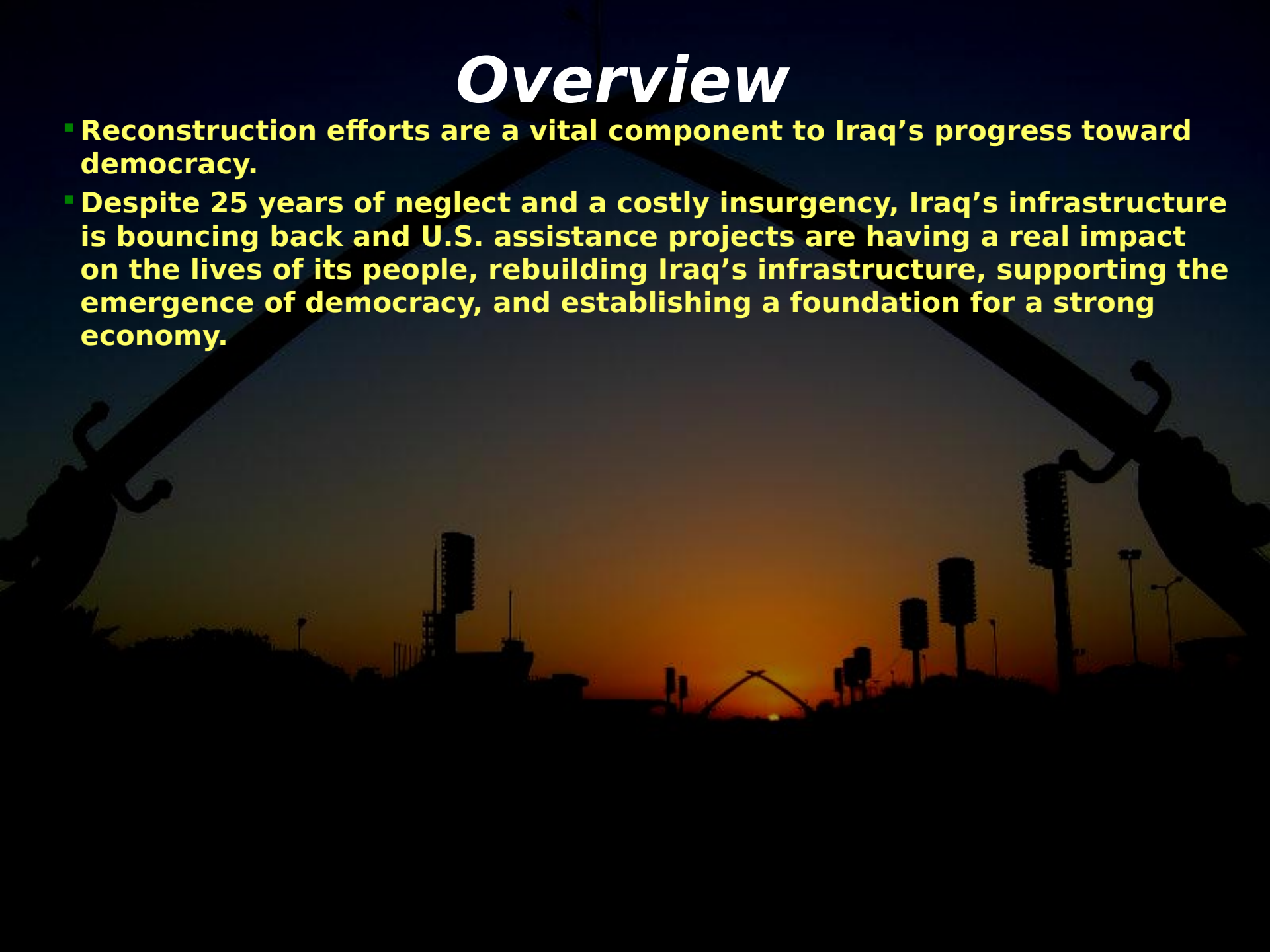
July 27, 2007

www.grd.usace.army.mil

REBUILDING IRAQ

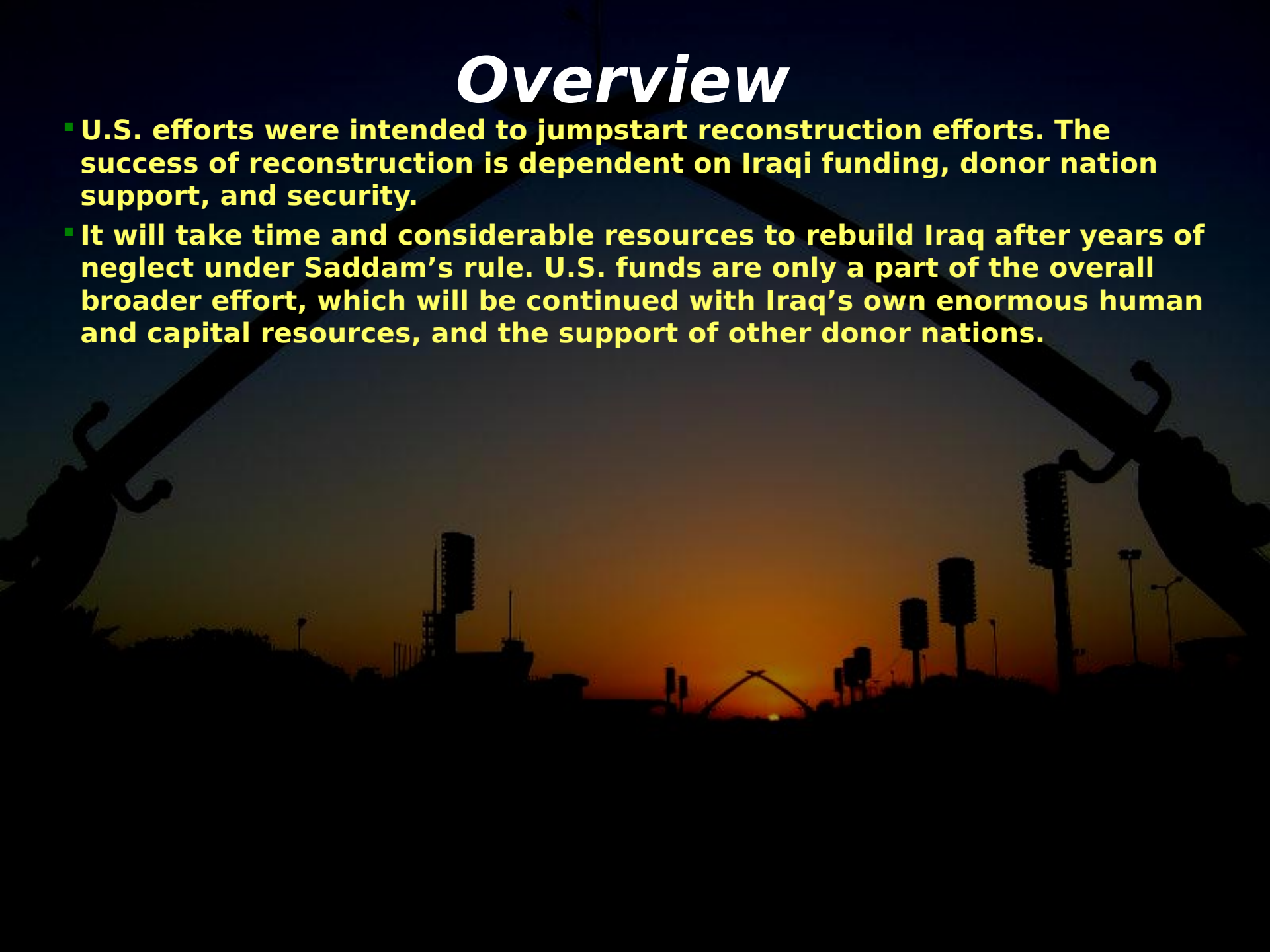
Overview

- Reconstruction efforts are a vital component to Iraq's progress toward democracy.
- Despite 25 years of neglect and a costly insurgency, Iraq's infrastructure is bouncing back and U.S. assistance projects are having a real impact on the lives of its people, rebuilding Iraq's infrastructure, supporting the emergence of democracy, and establishing a foundation for a strong economy.



Overview

- U.S. efforts were intended to jumpstart reconstruction efforts. The success of reconstruction is dependent on Iraqi funding, donor nation support, and security.
- It will take time and considerable resources to rebuild Iraq after years of neglect under Saddam’s rule. U.S. funds are only a part of the overall broader effort, which will be continued with Iraq’s own enormous human and capital resources, and the support of other donor nations.



Overview

- Statistics below reflect GRD portion of projects funded under Iraq Relief and Reconstruction Fund (IRRF), Developmental Fund of Iraq (DFI), Commander's Emergency Response Fund (CERP), Economic Support Fund (ESF), and Iraq security Forces Fund (ISFF).
- ***At transfer of sovereignty in June 2004, there were just 200 projects started.***
- ***As of 27 July 2007, USACE/GRD has:***
- **4,330 planned projects - construction cost of $7.89 B**
- **3,545 completed projects – construction cost of $5.02 B**
- **513 ongoing projects – construction cost of $2.33 B**
- **97 projects awarded, but not yet started.**
- (Note: Data compiled by contractor Stanley Baker Hill from the Iraq Reconstruction Management System (IRMS) database of construction projects in Iraq. Data is being pulled from the GRD Bench Mark table in IRMS. Data subject to change as more project information is entered. This does not include non-construction investments such as equipment purchases, training and some security)

Zanko
Substation

Transformer Placement

Electric
Industries

Taji Perimeter Lighting

Baiji Power Plant

Khor Az Zubair Power Plant

KOBELCO
KOBELCO

Erbil Water Treatment Plant

Sadr City Sewer Cleaning

Sweet Water Canal

TO -10 Pump Maintenance

Adhaim Dam

Capacity Development

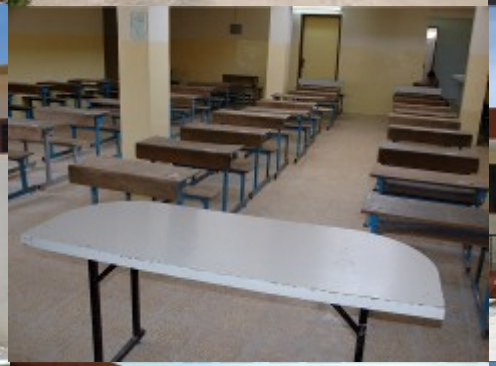
BIAP

Advanced First Responder Network

Baghdad Train Station

Baghdad International

Baghdad Train

مەکتەبی


ژیاریاندنی

Before

After

School Programs

Before

After

Al Fathah River Crossing

Stator Blades in Compressor

Flare Tips

Gas/Oil Separation

Basrah Port

Hospital
Program

Northern Border

الله أكبر

الائتلاف العراقي الموحد
الائتلاف العراقي

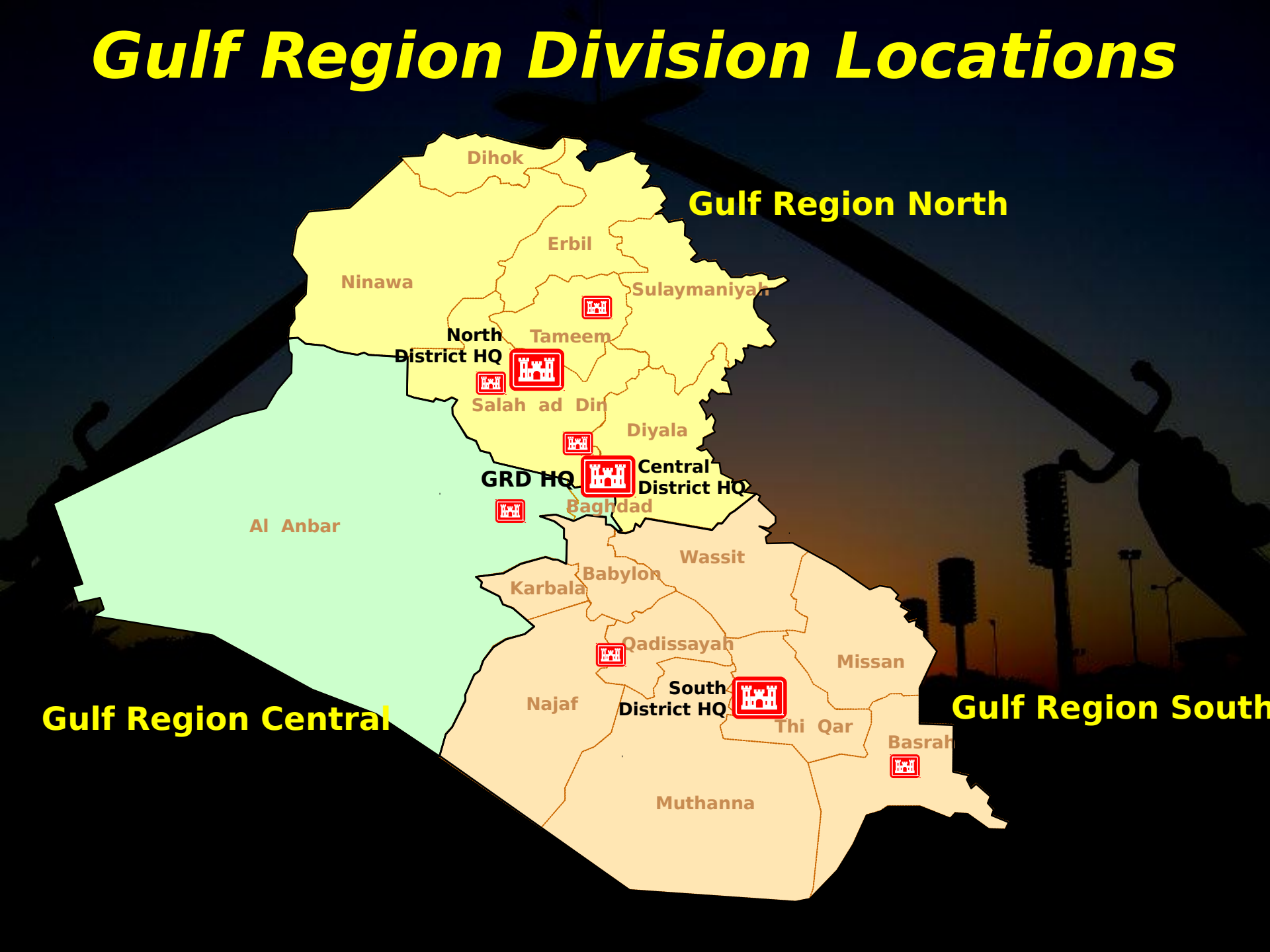
إنتخ

الشعب الكردي شعب مسالم
يمقت الإرهاب و يرفض العنف

وين ما كنت... قلبي بوطني
مستقبل العراق
له صوت: صوتك!
برنامج تصويت العراقيين خارج القطر العراقي

IRAQ
Reconstructi
on
KADHIMIYAH
THAWRA
7 NISSAN
MANSOUR
KARADAH
RASHEED

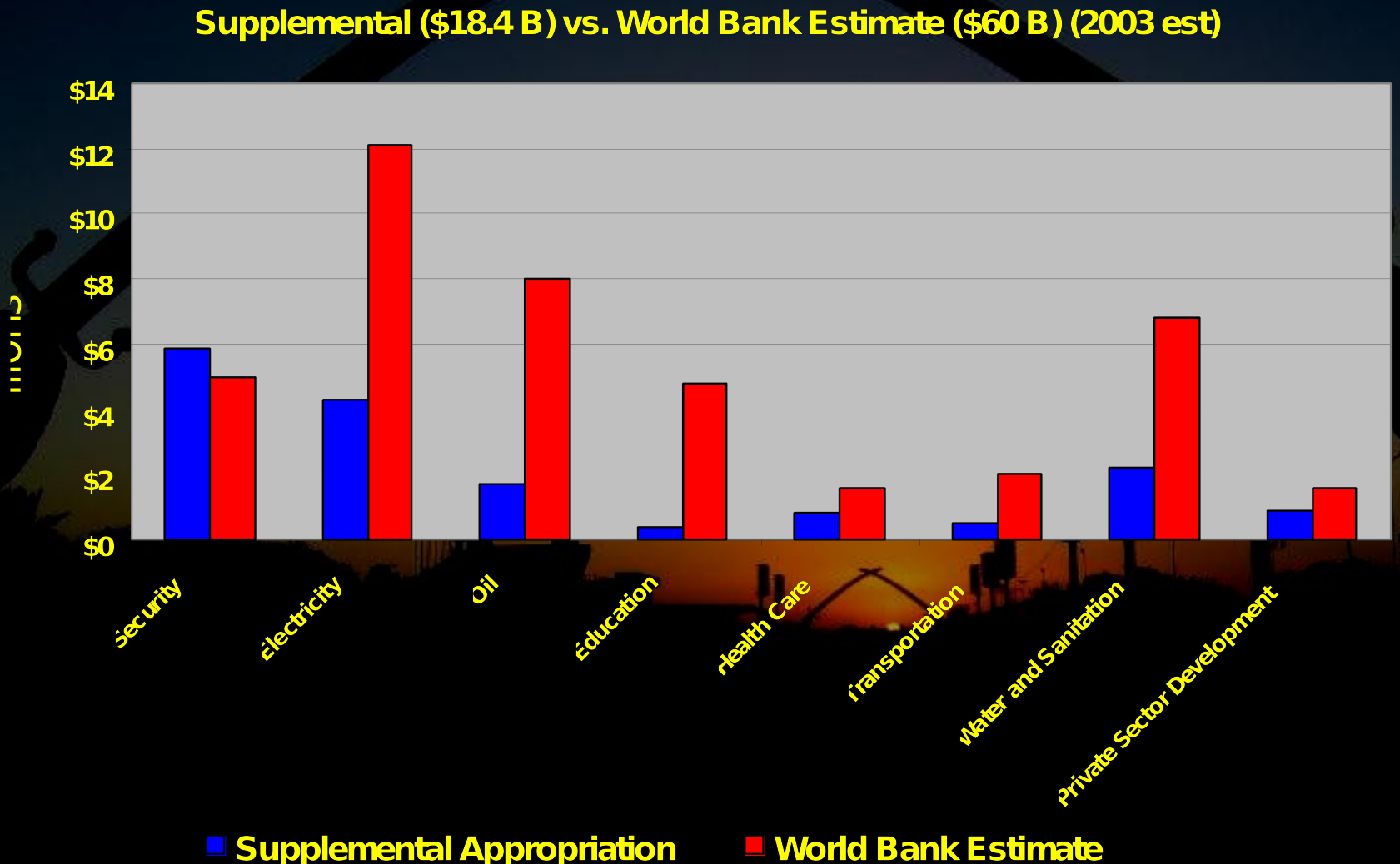
Gulf Region Division Locations



Mission Statement

The Gulf Region Division provides quality, responsive, and full spectrum engineering services in Iraq in support of military and civil construction and logistical services, and aggressively assists the Iraqi Government to assume full responsibility for national reconstruction.

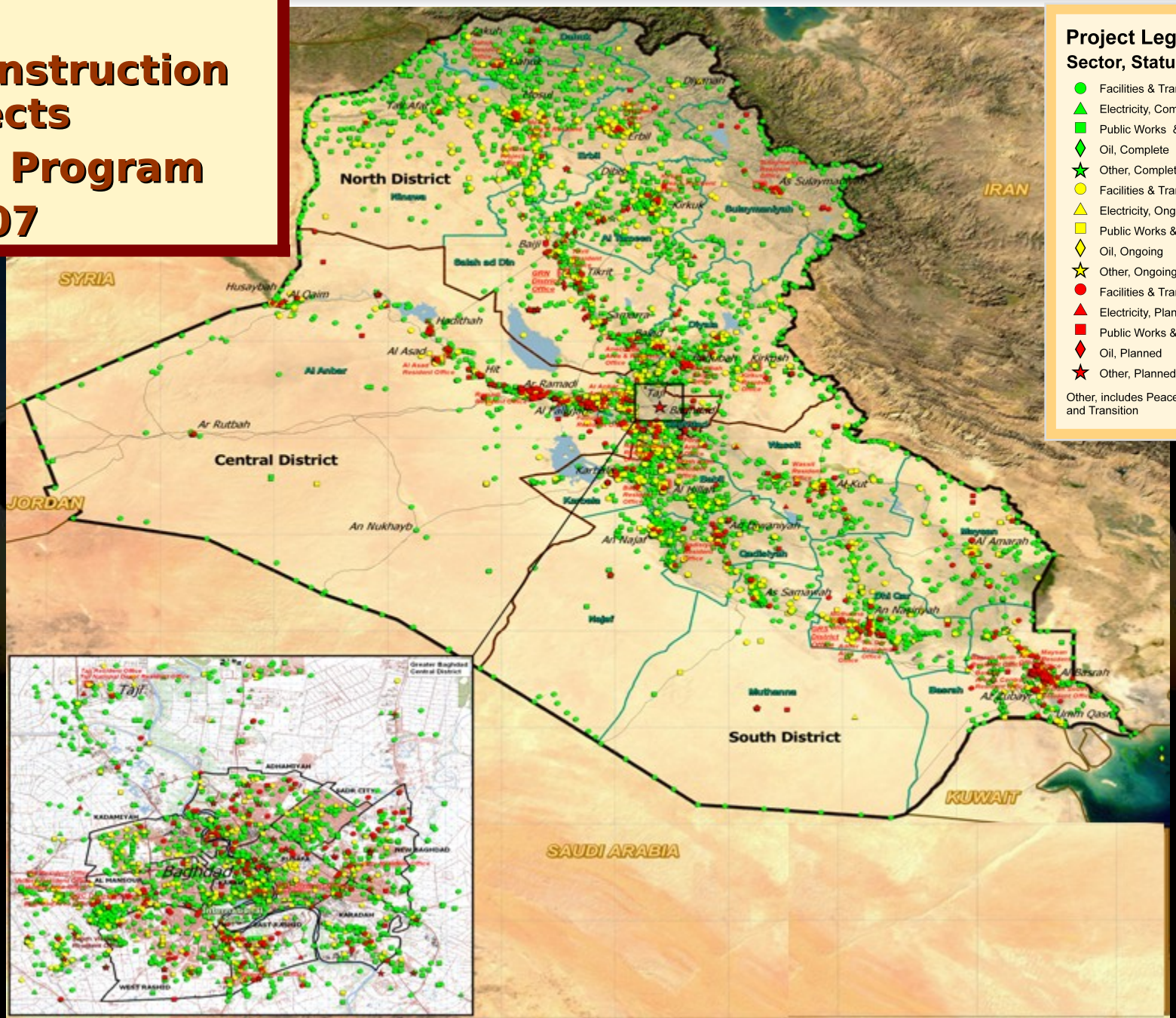
Cost to Rebuild Iraq to 1990-leve



Iraq Reconstruction Projects

Total Program

July 07



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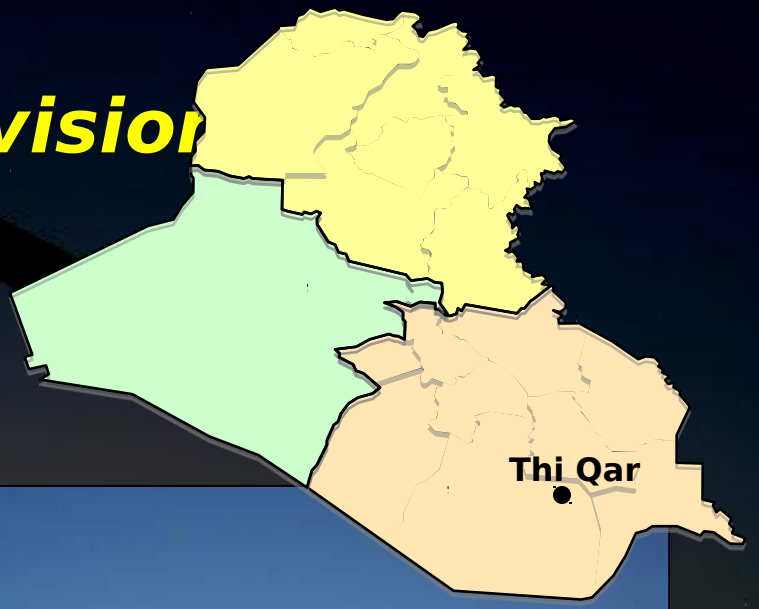

Tallil Military Medical Clinic

Construction will soon be complete on a $1.6 million

project to construct a Military Medical Clinic in the

Tallil District, Thi-Qar Governorate

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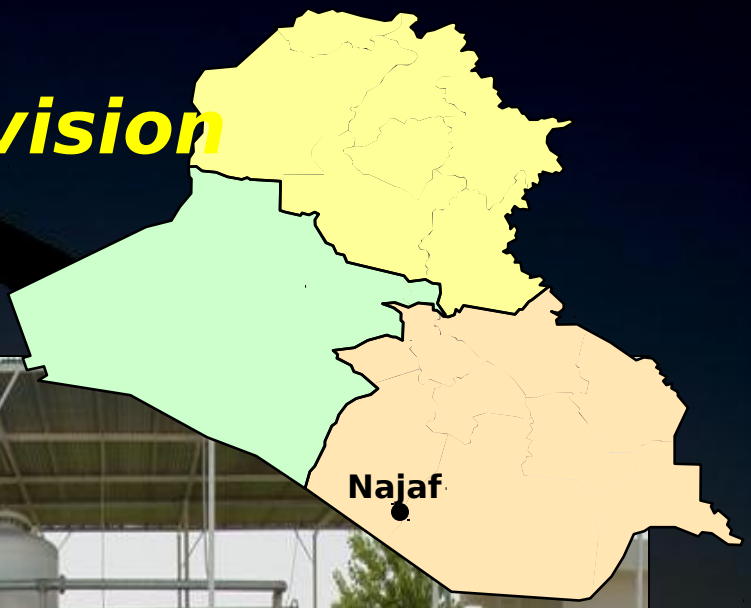

Al-Muash Water Treatment Unit

Construction completed a $236,000 Najaf Water Treatment project.

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Al Wassit Police Station

Construction is complete on a $225,000 Police Station

project in the Kut District, Wassit Governorate.

Al Mutawwi'ah Border Post

Construction is complete on a $274,600 Bo

Post project in the Al Khaseeb District, Bas

Governorate.

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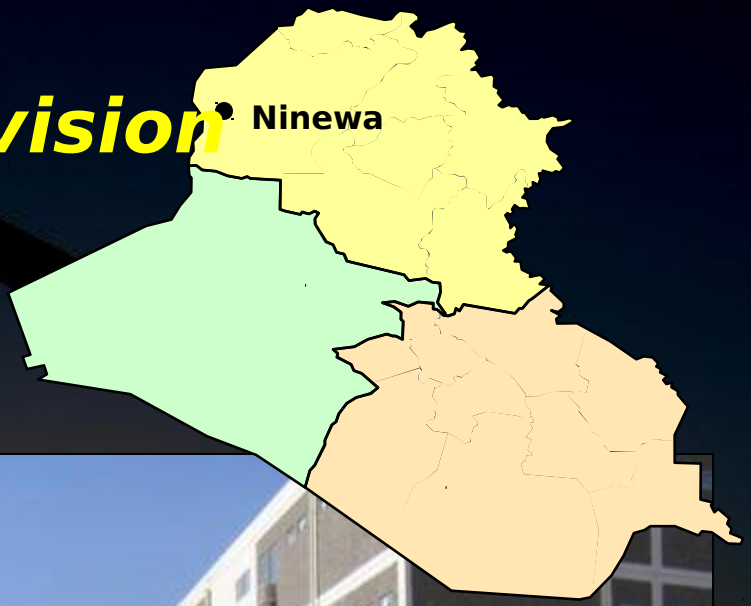

Al-Kasik Military Base

Construction will soon be complete on the $123.6 million Al-Kasik Military Base in Ninewa

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Baiji Electrical Power Plant

Construction is complete on a $67.4 million project to replace two gas turbines at the Baiji Power Plant, Salah Al-Din Governorate.

This project added 270 megawatts of

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Wadi Al Morr Railway Station

Construction is complete on a $72,300 Railway Station

project in the Mosul District, Ninewa Governorate.

Diyala Village Road

Construction is complete on a $99,600 Village Road project in the Je Zane District, Diyala Governorate.

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Sinjar Fire Station

Construction is complete on a $178,500 Sinjar Fire

Station in the Ninewa Governorate.

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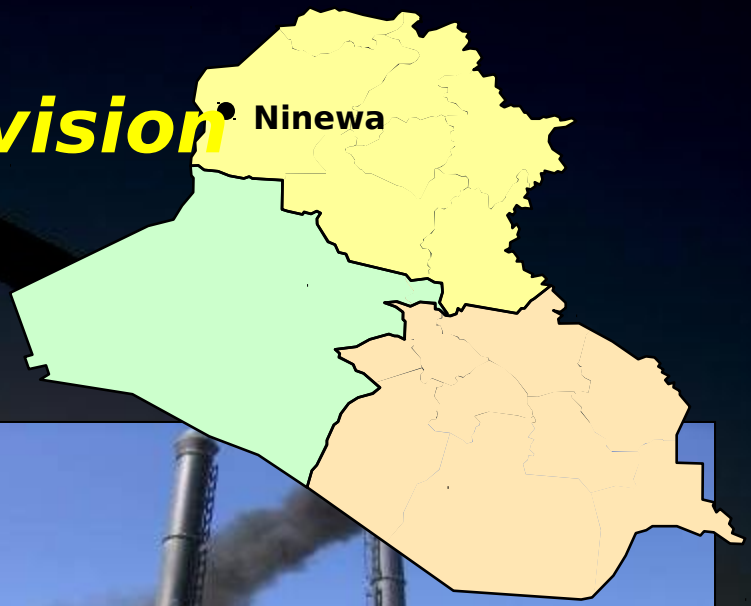


Qayarra Asphalt Refinery

Construction is complete on a $408,000 Qayarra Asphalt Refinery in the Ninewa Governorate.

Reconstruction Under Adversity

Baiji Power Plant, a Success Story

- Threats, intimidation, and loss of life
  - Senior project manager abducted
  - Security team member killed
  - Courage, determination
- Project completion

What Does It Cost To Work In This Type Of Environment?

- Cost plus award fee contract
- Initial estimate - $30 million
- Definitized - $59 million
- Security team attacked; security costs $9.5 million
- 165-day project takes 270 days.
  Final Project cost - $67.5 million

Reconstruction Projects

Large Scale Capital Projects

10% of the Projects – 80% Program Cost

Economic Infrastructure

Burzugan natural gas power plant
Plant cost $80 million

Small Scale Projects (< $0.5M)

90% of the Projects – 20% Program Cost

Community Based

Transition Strategies: The Road to Self Reliance

- Train Iraqi Associates
  - PCO/GRD Programs Professional Iraqi workforce of +350: project managers, engineers, project controls, database management; training in systems, coaching, project management, and Quality Assurance
- Contracting Outreach
  - Public seminars; teaching Iraqi contractors how to bid; networking with women-owne
- Capacity Development
  - O&M and Sustainment
- Relationships and Ministry Collaboration

Large vs. Small Projects

STRATCOM Challenge

Erbil Water Treatment Plant

Cost – $201 million

Design Capacity – 6,000 M^3 per Hour

Will service 330,000 people

Contract duration: 25 months

Improve Living Environment In Basrah City (PW 90)

Cost – $941,450

The project included installing 34 km of pipe, fittings and fixtures. This project provides additional potable water delivery capability

Contract duration: 7 months

Slow/Less Visible/Long Term ⟷ **STRATCOM** ⟷ **Quick/Visible/Short**

Electricity Overview

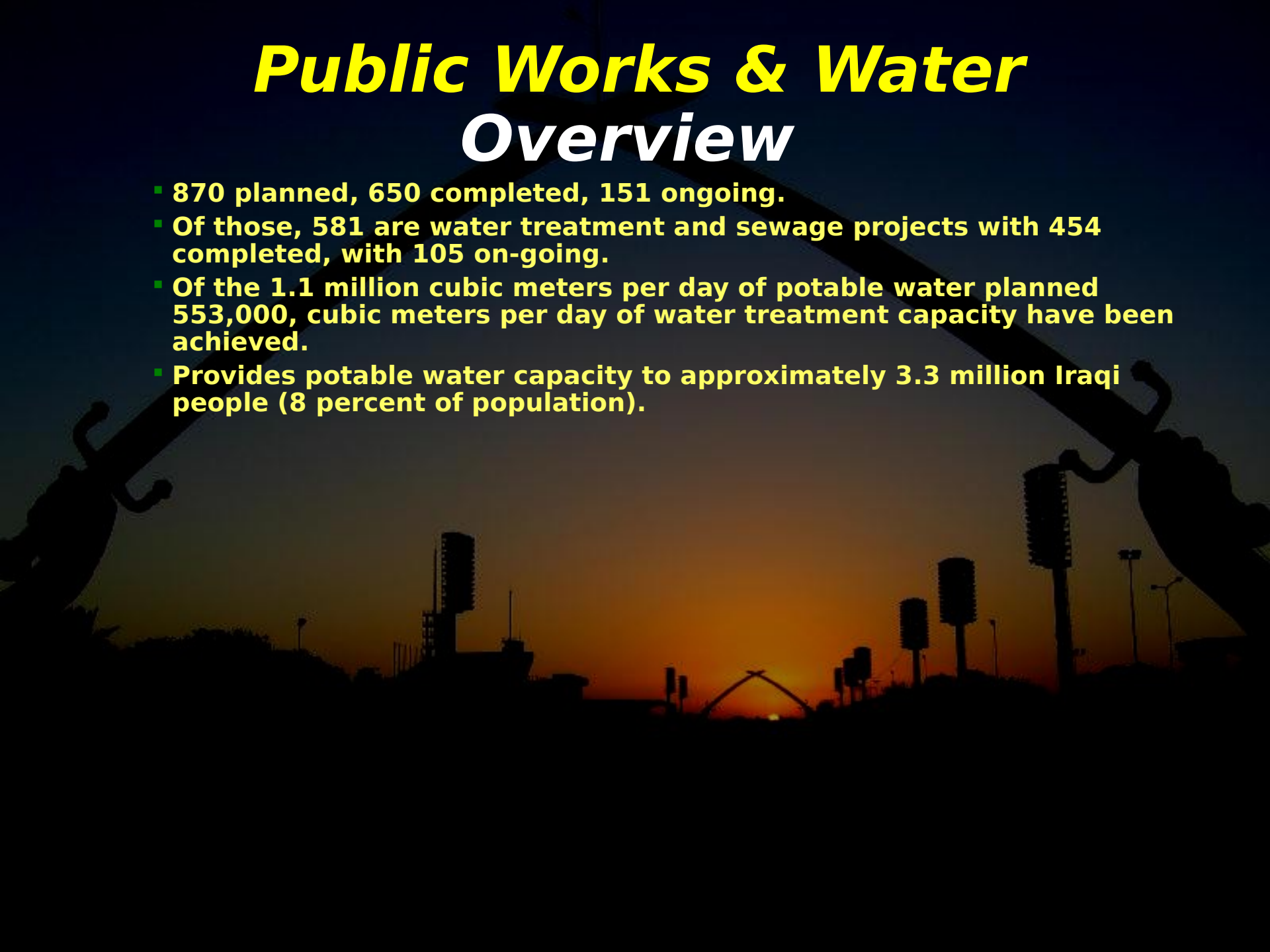
- Of 2,023 megawatts planned, 1,420 megawatts have been added and restored increasing the capacity of electrical power to serve 1.3 million households (6.5 million Iraqis or 20 percent of the population).
- 570 planned, 411 projects completed with 105 on-going.
- Strengthened and stabilized the electrical transmission grid through the completion of 26 132/400kV substations and six overhead line projects affecting 425,000 households and 2.1 million Iraqi citizens.

Electricity
Overview

- Completed construction of 64 33/11kV substations affecting 825,000 homes (4.5 million people or 17 percent of the Iraqi population).
- Employed an average of 7,000 Iraqi citizens per week.

Public Works & Water
Overview

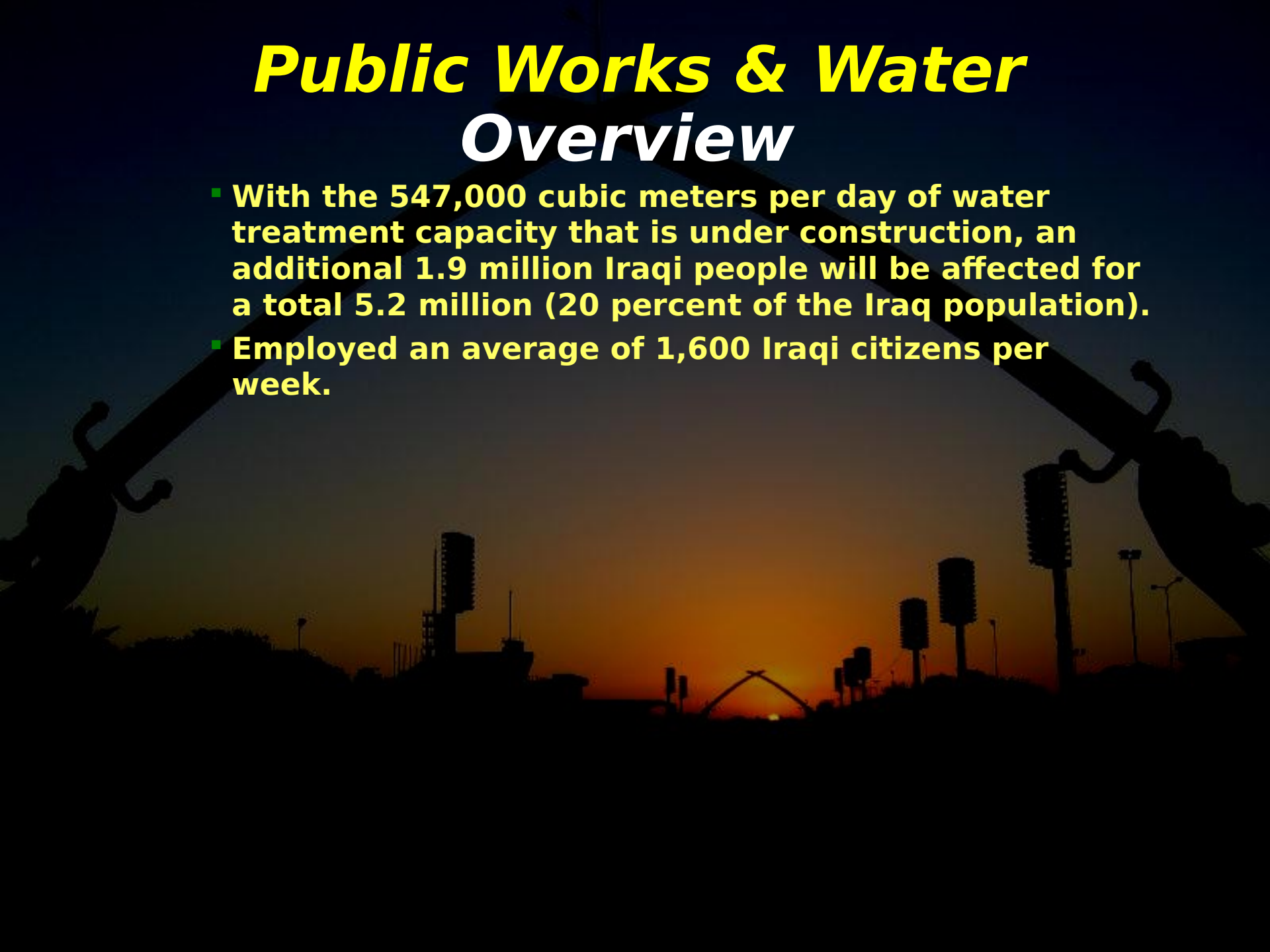
- 870 planned, 650 completed, 151 ongoing.
- Of those, 581 are water treatment and sewage projects with 454 completed, with 105 on-going.
- Of the 1.1 million cubic meters per day of potable water planned 553,000, cubic meters per day of water treatment capacity have been achieved.
- Provides potable water capacity to approximately 3.3 million Iraqi people (8 percent of population).



Public Works & Water

Overview

- With the 547,000 cubic meters per day of water treatment capacity that is under construction, an additional 1.9 million Iraqi people will be affected for a total 5.2 million (20 percent of the Iraq population).
- Employed an average of 1,600 Iraqi citizens per week.



Oil Projects Overview

- 111 projects planned, 78 completed, 11 ongoing.
- Of 3.0 million barrels per day of planned capacity, current oil production capacity is at 3.0 million barrels per day.
- Oil production increased immediately following post war by 1.9 million barrels per day generating added revenue to the Iraqi economy.
- Natural gas production capacity increased post war by 300 million standard cubic feet per day.
- Liquefied petroleum gas production capacity increased post war by 3000 tons per day.
- Employed approximately 5,000 Iraqi citizens per wk.

Facilities Overview

- 2,779 planned, 2,406 completed, 246 ongoing.

Building, Health, and Education

- 166 Primary Healthcare Centers - 76 Primary Healthcare Centers are under construction with 51 complete and 9 impacted by insurgent activities.

Facilities & Transportation Overview

- Transportation and Communication
- Completed 318 kilometers of village roads. An additional 109 kilometers of village road projects is on-going.
- 97 railroad renovation projects at 95 railroad stations have been completed, which accounts for 93 percent of total railroad stations.
- 14 of 19 aviation projects are completed, affecting 3 airports, affecting 4,000 passengers per day.
- Completed 6 port projects increasing port support for 50 ships per day. This accounts for 60 percent of the port capacity in Iraq.
- Employed an average of 2,300 Iraqi citizens per week.

Building, Health, and Education Overview

- 166 Primary Healthcare Centers / 76 health care centers are under construction with 88 complete.
- Of the 48 hospital renovation projects planned - 8 are ongoing with 32 completed, at 20 hospitals across the country.
- This increases the capacity to treat about 3.25 million patients annually in hospitals and 630,000 outpatients annually at the PHCs, which is 14 percent of the patient population.
- Renovation or construction of 986 schools is complete improving quality learning environments for more than 500,000 kindergarten through 8th grade students (9 percent of the total amount of students/schools in Iraq).
- Employed an average of 2,650 Iraqi citizens per week.

Security and Justice Overview

- Completed construction on 154 border forts and 11 Point of Entry facilities (includes MNSTC-I projects).
- Completed renovation on 95 fire stations, which comprises 30 percent of the total number of fire stations or fire-fighting services for Iraq.
- Completed work on 32 courthouses with 7 on-going.
- Constructing/rehabilitating four correctional facilities that will provide 4,090 beds and improving conditions for 1,700 more. This will increase new beds by 43 percent and improve 18 percent of existing bed space
- Employed an average of 3,500 Iraqi citizens per week.

How You Can Help

- **Stay informed: www.grd.usace.army.mil**
- **Continue to Support our Men and Women in Uniform and our DOD Civilians Engaged in the Global War on Terror and Iraqi Reconstruction**

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